

TABLE I
FIELD GC/MS RESULTS FOR VOLATILE ORGANIC COMPOUNDS
 1160 KERN AVENUE
 SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)¹

Sample ID	Date	Sample Type	Sample Location	PCE	TCE
Ambient Samples					
001	5/24/2013	Ambient Blank	Outside, north of building	0.04 ²	ND ³
034	5/24/2013	Ambient Blank	Outside, north of building	0.07	0.19
Women's Restroom in Western Portion of Building					
003	5/24/2013	Breathing Zone	Near door	2.8⁴	2.4
004	5/24/2013	Breathing Zone	Near floor drain	5.6	7.5
005	5/24/2013	Breathing Zone	In shower area	4.4	5.5
006	5/24/2013	Pref. Pathway	Beneath left sink, inside crack near piping	2.3	1.5
007	5/24/2013	Pref. Pathway	Behind left toilet, next to joint in pipe	2.3	1.4
009	5/24/2013	Pref. Pathway	Inside/beneath floor drain trap guard	177	369
031	5/24/2013	Pref. Pathway	Exterior of floor drain trap guard (with mylar)	158	384
008	5/24/2013	Pref. Pathway	Exterior of floor drain trap guard (with non- airtight plastic cover)	6.5	5.7
011	5/24/2013	Pref. Pathway	Crack in base of corner of wall near toilet (with mylar)	7.0	18
012	5/24/2013	Pref. Pathway	Crack in base of corner of wall near shower (with mylar)	3.2	2.7
013	5/24/2013	Pref. Pathway	Women's restroom in warehouse, inside shower drain	16	32
014	5/24/2013	Pref. Pathway	Crack in floor tiles (with mylar)	213	451
030	5/24/2013	Pref. Pathway	Crack in floor tiles (re-sample of sample 014)	222	471
032	5/24/2013	Indoor Source	In chemical storage closet	3.6	5.6
Outside Women's Restroom in Western Portion of Building					
002	5/24/2013	Breathing Zone	Inside warehouse, adjacent to restroom	2.2	1.5
033	5/24/2013	Pref. Pathway	Patched concrete outside women's restroom in warehouse (with mylar)	1.1	1.1
Men's Restroom in Western Portion of Building					
015	5/24/2013	Breathing Zone	Center of restroom near stalls	1.8	1.4
016	5/24/2013	Breathing Zone	In shower area	1.7	1.1
017	5/24/2013	Pref. Pathway	Inside shower drain	1.6	0.95
018	5/24/2013	Pref. Pathway	Inside floor drain	10	22
019	5/24/2013	Pref. Pathway	At floor tiles - no cracks noted (with mylar)	Sample failed; no results	
029	5/24/2013	Pref. Pathway	At floor tiles - no cracks noted (re-sample of sample 19)	1.1	0.51
Women's Restroom in Eastern Portion of Building					
021	5/24/2013	Breathing Zone	Near floor drain	2.4	2.9
022	5/24/2013	Breathing Zone	In corner stall	2.2	2.4
023	5/24/2013	Pref. Pathway	Inside hole in base of corner wall	2.1	1.5
024	5/24/2013	Pref. Pathway	Inside/beneath floor drain trap guard	35	43
Men's Restroom in Eastern Portion of Building					
025	5/24/2013	Breathing Zone	Near floor drain	1.6	1.0
026	5/24/2013	Pref. Pathway	Inside floor drain	Sample failed; no results	

Sample result above 10 $\mu\text{g}/\text{m}^3$

Sample result above 100 $\mu\text{g}/\text{m}^3$

Notes:

1. Results converted from parts per billion by volume to micrograms per cubic meter for clarity.
2. Sample results not shown in bold indicate that the compound is not considered detected in the sample despite a numerical value; see "Portable GC/MS Results" in the report for details.
3. "ND" indicates that the compound was not detected in the sample.
4. Sample results shown in **bold** indicate the compound was detected in the sample.

Abbreviations:

PCE = tetrachloroethene

TCE = trichloroethene

cDCE = dis-1,2-dichloroethene

tDCE = trans-1,2-dichloroethene

VC = vinyl chloride

TABLE I
HISTORICAL ANALYTICAL RESULTS FOR INDOOR AIR SAMPLES

1160 Kern Avenue
 Sunnyvale, California

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Sample ID	Sample Type	Location	Date Collected	Chloro-benzene	1,2-DCB	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	PCE	1,1,1-TCA	TCE	Freon 113	Vinyl Chloride
Pre-Mitigation Sampling														
AMB-1	Ambient ¹	Parking lot	8/21/2011	<0.092 ²	<0.30	<0.020	<0.055	<0.055	<0.040	<0.14	<0.11	<0.027	0.79 ³	<0.013
AMB-2	Ambient	Roof	8/21/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	<0.14	<0.11	0.053	0.74	<0.013
IA-1	Breathing Zone ⁴	Warehouse/storage	8/21/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	1.6	<0.11	1.2	0.75	<0.013
IA-10	Blind Field Duplicate ⁵		8/21/2011	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	1.4	<0.11	1.2	0.66	<0.013
IA-2	Preferential Pathway ⁶	Womens rest room in warehouse	8/21/2011	<0.092	<0.30	0.021	0.25	<0.055	<0.040	14 ⁷	0.16	27	1.4	0.017
IA-3	Breathing Zone	Conference room	8/21/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	2.1	<0.11	1.6	0.83	<0.013
IA-4	Breathing Zone	Lobby	8/21/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	1.0	<0.11	0.84	0.71	<0.013
IA-5	Breathing Zone	Volunteer room	8/21/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	2.4	<0.11	1.8	0.88	<0.013
IA-6	Breathing Zone	Warehouse/storage	8/21/2011	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	3.0	<0.11	1.7	0.62	<0.013
Post-Mitigation Sampling														
AMB-3	Ambient	Parking lot	12/22/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	<0.14	<0.11	0.040	0.70 J ⁸	<0.013
AMB-4			7/8/2012	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	0.52 J	<0.11	<0.027	0.70	<0.013
IA-2R	Preferential Pathway (and Blind Field Duplicates)	Womens rest room in warehouse	12/22/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	3.7	<0.11	6.9	1.1 J	<0.013
IA-20R			12/22/2011	<0.092	<0.30	<0.020	<0.055	<0.055	<0.040	4.2	<0.11	7.6	1.5 J	<0.013
IA-2B ⁹			7/8/2012	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	6.0 J	0.14	14	0.88	<0.013
IA-20B			7/8/2012	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	7.8 J	0.15	15	1.0	<0.013
IA-7	Preferential Pathway	Mens rest room in warehouse	12/22/2011	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	1.2	<0.11	1.3	0.74 J	<0.013
IA-7B			7/8/2012	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	2.5 J	0.11	2.2	0.75	<0.013
IA-8	Preferential Pathway	Mens rest room off lobby	12/22/2011	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	1.4	<0.11	1.4	0.76 J	<0.013
IA-8B			7/8/2012	<0.092	<0.30	<0.020	<0.056	<0.056	<0.040	2.7 J	<0.11	2.1	0.74	<0.013
IA-9	Preferential Pathway	Womens rest room off lobby	12/22/2011	1.0	0.81	<0.020	<0.055	<0.055	<0.040	1.5	<0.11	2.0	0.79 J	<0.013
IA-9B			7/8/2012	<0.092	<0.30	<0.020	0.15	<0.055	<0.040	3.2 J	<0.11	4.2	0.74	<0.013
U.S. EPA Region 9 Regional Screening Level (RSL) for Industrial Air				220	880	7.7	260 ¹⁰	260	880	47 ¹¹	22,000	3.0 ¹²	130,000	2.8

Notes:

1. Ambient samples were collected outdoors, in an approximate upwind direction of the building and/or near the intake of the building's passive air intake.
2. "<" indicates that the analyte was not detected at or above the laboratory reporting limit shown.
3. Results shown in **bold** indicate that the analyte was detected in the sample at or above the laboratory reporting limit.
4. Breathing zone samples were collected indoors from the approximate height of a seated worker.
5. Each duplicate sample was collected simultaneously the associated primary sample, using a T-splitter.
6. Preferential pathway samples were collected indoors, as close as possible to a potential source. Preferential pathway sample results are not necessarily representative of employee exposure.
7. Shaded cells indicate that the analyte was detected in the sample above the RSL.
8. "J" indicates that the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
9. Sample IA-2B is considered a "grab" sample; the canister had filled completely by the time field personnel arrived to close it.
10. No RSL is available for cis-1,2-DCE; the screening level for trans-1,2-DCE is presented as a surrogate.
11. The RSL for PCE reflects recent updates to the toxicity criteria by EPA. However, California has not yet adopted these revised criteria. Screening levels for PCE based on California toxicity.
12. The U.S. EPA updated the RSL for TCE in November 2011; the RSL for TCE used in prior reports for this site is $6.1 \mu\text{g}/\text{m}^3$.

Abbreviations:

1,1,1-TCA = 1,1,1-trichloroethane
 1,1-DCA = 1,1-dichloroethane
 1,1-DCE = 1,1-dichloroethene
 1,2-DCB = 1,2-dichlorobenzene

cis-1,2-DCE = cis-1,2-dichloroethene
 Freon 113 = 1,1,2-trichloro-1,2,2-trifluoromethane
 PCE = tetrachloroethene
 RSL = U.S. EPA Region 9 Regional Screening Level

TCE = trichloroethene
 trans-1,2-DCE = trans-1,2-dichloroethene
 U.S. EPA = U.S. Environmental Protection Agency